USER MANUAL

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1. IMPORTANT SAFETY INSTRUCTIONS

When using your Single Door Controller, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons. In addition, the following should also be followed:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
4. Do not use this product near water, such as bath-tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or swimming pool.
5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
6. Never push objects of any kind into this product or through the cabinet slots as they may touch voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.
7. To reduce the risk of electric shock, do not disassemble this product by yourself, but take it to qualified service whenever service or repair is required. Opening or removing the covers may expose you to dangerous voltages or other risks. Also, incorrect reassembly can cause electric shock when the unit is subsequently used.
8. Unplug this product from the Direct Current (DC) power source and refer to qualified service personnel under these conditions:
   a. When the power supply cord or plug is damaged or frayed.
   b. If liquid has been spilled on the product.
   c. If the product does not operate normally after following the operating instructions in this manual.
      Adjust only those controls that are covered by the operating instructions in this manual. Improper adjustment of other controls that are not covered by this manual may damage the unit and will often require extensive work by a qualified technician to restore normal operation.
   d. If the product exhibits a distinct change in performance.

2. GENERAL

A properly configured SENSORPROX 100R/PIN120 is an intelligent single door controller that combines the convenience of wireless entry with the security of an alarm system. Also, the SENSORPROX 100R/PIN120 system will give you field proven reliability and cost-effective solution anywhere access controls and high security are required. Each standard unit can store up to 512 users or card Ids. The task of assigning cards and managing a user's database is so simple, user friendly, and can be accomplished in many ways; it could be as simple as presenting each card to the unit or as descriptive as a user's database with an easy to use Graphical User Interface.

The SENSORPROX 100R/PIN120 can interface and operate with these accessories: Request for EXIT button, Door-Contact sensor, PIR sensor, Fire sensor and other sensors via 5 independent input ports. Also, output ports which include 2 Relays and 2 TTL outputs can be used to control the operation of other accessories such as Electric/Magnetic Door Lock, Alarm, Chime Bell, and Auto-Dialer. Moreover, the status or behaviors of these input and output accessories are configurable to provide the system administrator with complete customized control of the system. Besides the above configurable I/O interfaced behaviors, many of the SENSORPROX 100R/PIN120 internal behaviors are programmable as well.

The internal operating parameters include the number of incorrect access attempts before alarm condition is triggered, tampering protection from mounting removal, and timers. Furthermore, every event or transaction can be captured and time stamped by the SENSORPROX 100R/PIN120 application software via the provided RS-232 wires.

3. FEATURES

- Single Door Controller
- Built-in Proximity Reader with up to 10cm read range with IDC170 card
- 512 Users or Card IDs including the Configuration card
- 5 independent input ports
- 4 output ports including 2 Form-C Relays to facilitate either Power-Failed Safe or Secure mode of operation
- All I/Os behaviors and associated Timers are user programmable either through the keypad or the application software
- Door Lock and Unlock functions
- Configurable for Normal/Secure mode of operation (Secure Mode requires using external sensor(s) and alarm/siren)
- Covert Duress sensing and responding (activate a silent alarm through the external Auto-Dialer)
- Programmable On/Off audio feedback (turning off audio feedback for Silent mode of operation)
- Programmable the maximum number of unsuccessful attempts allow before activating the Alarm when exhaustive break-in method is employed
- RS-232 communication port for interfacing with the SENSORPROX 100R/PIN120 application software
- 3 LEDs (red, green, and yellow) for system operation status
- Chime Bell function to operate an externally connected Doorbell

4. SPECIFICATION

.Memory	: Flash, Non-volatile, 1 millions times read/write
.Power	: DC 12V/ 200mA max.
.Proximity reader	: Built-in Proximity reader with up to 10cm read range with IDC170 card
.User capacity	: 512 Users including the Configuration card
.Input/Output	: 5 Inputs, max. rating at DC12V/20mA : 2 Relay outputs : DC12V~24V/2A max. : 1 chime bell output : DC5V/150mA max. : 1 TTL output : DC5V/20mA
.Communication	: One RS-232 port, 9600 Baud Rate,N,8,1, Xon and Xoff
.Keypad	: 12 Numeric Keypad
.LED	: 3 LEDs (red, green, and yellow)
.Operating environment range	: -35°C to +65°C, 10% to 90% Humidity
.Storage environment range	: -40°C to +70°C, 10% to 90% Humidity
.Mounting	: Wall mounted and US or European gang box
.Weight	: 0.464lbs (210gm)
.Dimensions	: 4.17" x 3.40" x 1.22"
.Color	: Dark pearl grey
.Material	: Polycarbonate
.Format	: 26-bit Wiegand
.Certification	: UL-294 indoor and outdoor compliance, FCC Class A part 15 and CE

5. FRONT PANEL DESCRIPTION

SENSORPROX 100R/PIN120
Main Unit

6. IDENTIFYING SUPPLIED PARTS

Please unpack and check the contents of the box.

MainUnit
(1 EA)

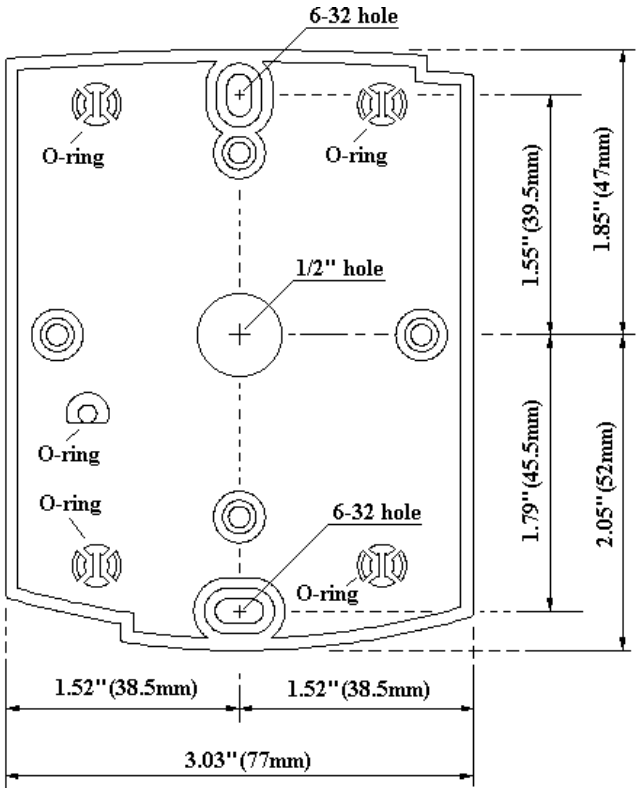
Wall Mount
(1 EA)

O-Ring
(5 EA)

Manual
(1 EA)

7. INSTALLATION OF THE PRODUCT

7-1. Tear off page 27 and use the provided template to drill two 6-32 holes and one 1/2" hole on the proper location of the wall to mount the Wall Mount bracket as shown below.
(If the gang box is already installed on the wall then skip this step.)



7-2. Using 2 screws, install wall mount to the wall.

*** CAUTIONS ***

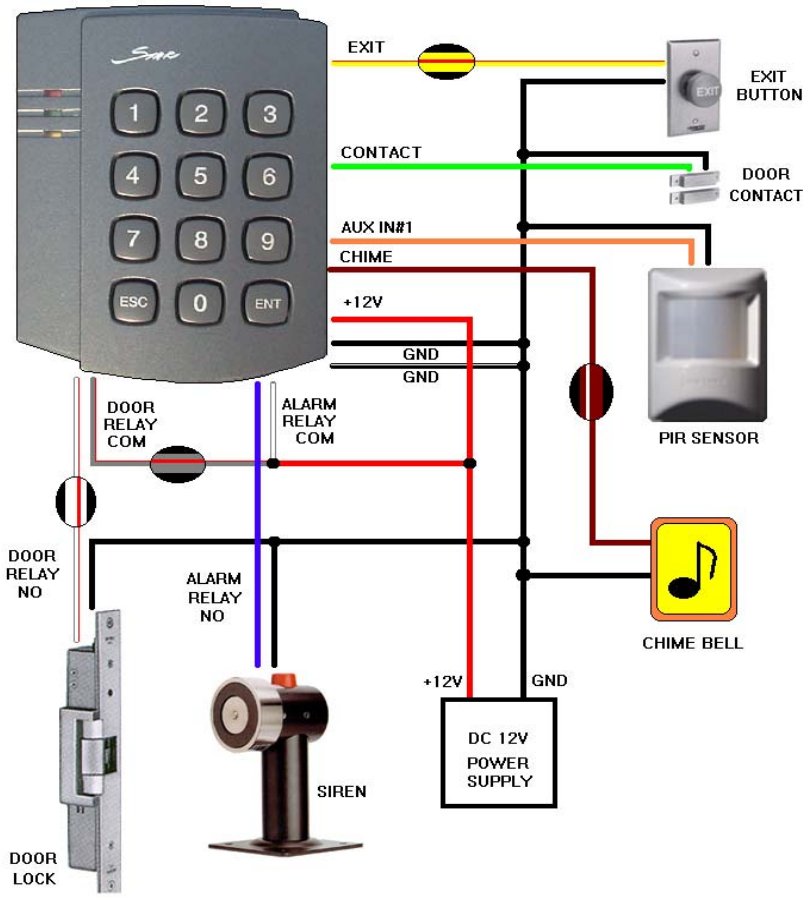
Before mounting the SENSORPROX 100R/PIN120 unit to the Wall Mount bracket, operational testing of the unit should be completed, as the locking pins will lock the unit to the Wall Mount. Removing the unit from the Wall Mount bracket after they have been installed together may cause damages to the bracket and render its effectiveness.

7-3. Insert 5 O-rings to the wall mount as indicated, then route the cable of the main unit through the center hole and push the main unit to wall mount to lock the main unit and make sure that the main unit is locked with wall mount.

8. COLOR CODED & WIRING TABLE

I/O PORT NAME	SIGNAL NAME	COLOR CODED
POWER		
Main Power (V+)	+12V	Red wire & Red with White band
Power Ground	0V	Black wire & Black with White band
OUTPUT		
Door RELAY(2A)	COM	Grey wire with Red band
Door RELAY(2A)	NC	Blue wire with White band
Door RELAY(2A)	NO	White wire with Red band
Alarm RELAY(2A)	COM	White wire
Alarm RELAY(2A)	NC	Purple wire with White band
Alarm RELAY(2A)	NO	Purple wire
TTL Output	TTL	Orange wire with White band
CHIME BELL Output	BELL	Brown wire with White band
INPUT		
Exit Button	EXIT	Yellow wire with Red band
Door Sensor	CONTACT	Green wire
Aux Input #1	IN#1	Orange wire
Aux Input #2	IN#2	Green wire with White band
Aux Input #3	IN#3	Brown wire
WIEGAND INPUT / OUTPUT		
Wiegand Data 0	DATA0	Pink wire
Wiegand Data 1	DATA1	Cyan wire
RS232 INTERFACE		
RS232-TX	TXD	Grey wire
RS232-RX	RXD	Blue wire
RS232-GND	GND	Yellow wire

9. SYSTEM WIRING FOR TYPICAL APPLICATION



9-1. Power Connection

- Connect (+) wire of DC +12V power to Red wire and Red/White banded wire.
- Connect Power GND (-) wire of DC +12V to Black wire and Black/White banded wire.

9-2. Door Lock Connection

9-2-1 Connection of <u>POWER FAIL SAFE: Door Lock</u>

- Connect Door RELAY (NC), Blue/White banded wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Door Lock to Door RELAY (COM), Grey/Red banded wire.
- Connect (-) wire of Door Lock to Power GND (-) wire.

9-2-2 Connection of <u>POWER FAIL SECURE: Door Lock</u>

- Connect Door RELAY (COM), Grey/Red banded wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Door Lock to Door RELAY (NO), White/Red banded wire.
- Connect (-) wire of Door Lock to Power GND (-) wire.

9-3. Alarm Device Connection

- Connect Alarm RELAY (COM), White wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Alarm Device to Alarm RELAY (NO), Purple wire.
- Connect (-) wire of Alarm Device to Power GND (-) wire.

9-4. Exit Button Connection

- Connect one of the wires of Exit Button to Exit Button Input, Yellow/Red banded wire.
- Connect the other wire of Exit Button to Power GND (-) wire.

(If a normally closed Exit button is used, then see section 12-67 to change the detection scheme from the defaulted setting)

9-5. Door Contact Sensor Connection

- Connect Door Contact sensor (COM) wire to Door Contact Input, Green wire.
- Connect Door Contact sensor (NO) wire to Power GND (-) wire.

(If a normally closed Door Contact sensor is used, then see section 12-69 to change the detection scheme from the defaulted setting.)

9-6. Auxiliary Input Device Connection (Applied to AUX Input #1, #2, #3)

- Connect one wire of the Auxiliary Input Device to the AUX Input wire (Input #1 Orange, Input #2 Green/White banded, Input #3 Brown wire).
- Connect the other wire of Auxiliary Input Device to Power GND (-) wire.

(If a normally closed input device is used, then see section 12-61,63 & 65 to change the detection schemes from the defaulted settings.)

9-7. Auto-Dialer Connection (Separate purchase required)

The Auto-dialer function of this unit has not been evaluated by UL.

- Connect the input wire of Auto-Dialer to TTL output, Orange/White banded wire.
- Connect (+) wire of Auto-Dialer to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (-) wire of Auto-Dialer to Power GND (-) wire.
- Connect Telephone Line plug (RJ-14) to Auto-Dialer.

(If an active High Auto-Dialer is used, then see section 12-71 to change the TTL output level from the defaulted setting.)

9-8. Wiegand Input Connection From Another Compatible Wiegand Reader

(Separate purchase required)

- Connect (+) wire of Reader to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (-) wire of Reader to Power GND (-) wire.
- Connect Wiegand output DATA0 wire of the additional Reader to DATA0, Pink wire.
- Connect Wiegand output DATA1 wire of the additional Reader to DATA1, Cyan wire.

9-9. RS-232 Communication Port Connection

9-pin connector (COM Port, female) is required to connect serial communication RS-232 between Main Unit and Personal Computer.

- Connect RS-232-TX, Grey wire of Main Unit to pin number 2 of 9-pin connector.
- Connect RS-232-RX, Blue wire of Main Unit to pin number 3 of 9-pin connector.
- Connect RS-232-GND, Yellow wire of Main Unit to pin number 5 of 9-pin connector.
- Plug in 9-pin connector to COM1 or COM2 Port of Personal Computer.
- Install and run SENSORPROX 100R/PIN120 Application Software.

9-10. Chime Bell Connection (Separate purchase required)

- Connect (+) wire of Chime Bell unit to Bell Output, Brown/White wire of Main Unit.
- Connect (-) wire of Chime Bell unit to Power GND (-) wire.

10. INITIAL SETUP

The Flash memory of each shipped STAR 100R/PIN120 contains a minimum set of defaulted values, but it does not have any other preprogrammed values or user's data in it, therefore, Initial Setup is required upon the first time the unit is powered-up in order to operate the unit properly.

10-1. Registration of RF Cards for RF CARD ONLY MODE

(1) Apply 12VDC to the unit.
All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press [0] [1] [ENT] from the keypad. (RF CARD ONLY MODE)

(3) Present RF Cards as follow to register Configuration Card and User Access Cards.

Configuration Card

User Access Cards

Configuration Card again to end task.

NOTE: The user may choose to register the 8 digit card numbers via the keypad instead of presenting the cards to the unit; this implies that the user must know the 8 digit representation of each card.

(4) The first card read becomes the Configuration Card and the following RF Cards are registered as User Access Cards. Once all User Access Cards have been registered, present the Configuration Card again to complete the registration. (Please keep the Configuration Card in a secure location for future changes.)

(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

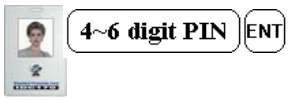
10-2. Registration of RF Cards with PINs for RF CARD + PIN MODE

(1) Apply 12VDC to the unit.
All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press [0] [2] [ENT] from the keypad. (RF CARD + PIN MODE)

(3) Present RF Cards as follow to register Configuration Card and User Access Cards + 4~6 digit Personal Identification Number (PIN) for each User Access Card.

Configuration Card



User Access Cards + PINs

Configuration Card again to end task.

(4) The first card read becomes the Configuration Card and the following RF Cards + PINs are registered as User Access Cards with assigned PINs. Once all User Access Cards and PINs have been registered, present the Configuration Card again to complete the registration. (Please keep the Configuration Card in a secure location for future changes.)

(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

10-3. Registration of PIN ONLY MODE

(1) Apply 12VDC to the unit.
All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press [0][3][ENT] from the keypad. (PIN ONLY MODE)

(3) Enter [4~6 digit PIN][ENT] to register Configuration PIN then [4~6 digit PIN][ENT] to register for each subsequent User Access PIN at a time and then enter the [4~6 digit PIN][ENT] (Configuration PIN) to complete the registration.

[4~6 digit PIN][ENT]	[4~6 digit PIN][ENT]	……..	[4~6 digit PIN][ENT]
Configuration PIN	User Access PIN...		Configuration PIN again to complete the registration.

(4) The first 4~6 digit PIN becomes the Configuration PIN and the subsequent 4~6 digit PINs are registered as User Access PINs. Once all User Access PINs have been registered, enter the Configuration PIN again to complete the registration. (Please store the Configuration PIN for future changes.)

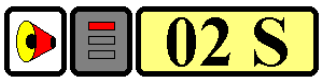
(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

10-4. Factory Defaulted Setting Values

After the Initial Setup, the Main Unit uses the factory defaulted setting values below to execute the normal operation mode. You may want to change these factory setting values or modify your User Access list; refer to section 12 for instructions on how to customize the operation of your unit.

(1) When User Access Card (or PIN) is granted
- Door RELAY activates for 3sec.
- Green LED lights on for 3sec.

(2) When User Access Card (or PIN) is not recognized
- Alarm RELAY activates for 2sec.
- Red LED lights on for 2sec.



(3) Duress Password = 00, Duress Alarm to TTL output port for 03 sec.
(4) QUICK ACCESS MODE = Disable
(5) Chime Bell output = Enable, Chime Bell activation time = 05 sec.
(6) Melody sound = Enable
(7) Keypad lock-out time when Try-Out error detected = 01 min.
(8) Detect all inputs from 'H' to 'L'

(9) Activate TTL output to 'L'
(10) Delay time to activate SECURE MODE = 00 min.
(11) Door Open time-out for Door Contact sensor = 00 sec.
(12) Number of times of Try-out = 05 times
(13) Input keypress time-out time = 20 sec.
(14) Tamper Alarm = Disable, Tamper Alarm output port = 02 (Alarm Relay)

11. OPERATION

11-1. Normal Operation Mode (Safe Mode)

When the Main Unit operates in normal mode, the yellow LED is flashing every second.

11-2. Open the Door

Registered Card (or PIN)

When a registered Card (or PIN) is read, the Door will open for 3 seconds along with the"do-mi-sol-do" melody.

11-3. Exit (Open the Door)

Exit Button

To request for exit from the inside, an Exit Button can be used to open the door for the same duration as in 11-2.

11-4. Action And Alarm Caused by Unregistered Card (or PIN)

Unregistered Card (or PIN)

When an unregistered Card (or PIN) is read, thus, access is denied and the Alarm can be activated for 2 seconds along with "sol-do-sol-do" melody.

(If you do not want to activate the Alarm in case of unregistered access attempt, then you can change this setting as shown in section 12.)

11-5. Secure Mode

The last person to exit can change the operation of the unit from Normal Mode to Secure Mode by entering the Secure Code of [7][7][ENT] onto the keypad.

[7][7][ENT] ⟶ Change to Secure Mode.

The Secure Mode will revert back to the normal mode when a registered card (or PIN) is presented/entered.

11-6. DURESS Alarm

In case of Duress, enter the 2 digit Duress Password [#][W][ENT] and the door will open as usual; however, the Duress Alarm (TTL Output) will activate an external Auto-Dialer to notify the appropriate personnel. See section 9.7 and 12.29 for more instructions on this feature.

11-7. Chime Bell Operation

The [ESC BELL] key can be used to activate an external Chime Bell for 5 seconds, the defaulted value.

12. SETTING CHANGES

Configuration Card/PIN is required to change existing or defaulted setting values or to manage user's access. First, present the Configuration Card (or enter the Configuration PIN) and enter the 2-digit command code.

RF Only Mode or RF + PIN Mode			PIN Only Mode		
	+ [?][?][ENT]	or	[4~6 digit PIN][ENT]	+ [?][?][ENT]	
Configuration Card	Command Code		Configuration PIN	Command Code	

Summary Table of Commands

Command	Action/Change setting values
11	Add User Access Cards (RF CARD ONLY MODE)
12	Add User Access Cards and PIN (RF CARD + PIN MODE)
13	Add User Access PIN numbers (PIN ONLY MODE)
14	Delete User Access Cards (or PIN)
21	Change Door open time when User Access Card (or PIN) is granted
22	Change Alarm time when User Access Card (or PIN) is denied
23	Change Alarm time when Try-Out error detected

24	Change Alarm time when Door-Contact error detected
25	Change Alarm time when Aux Input #1 detected
26	Change Alarm time when Aux Input #2 detected
27	Change Alarm time when Aux Input #3 detected
28	Change Alarm time when magnet detected
29	Register 2 digits Duress Alarm password
30	Change Alarm time when Duress Alarm detected
31	Test Door open time set by command "21"
32	Test Alarm time set by command "22"
33	Test Alarm time set by command "23"
34	Test Alarm time set by command "24"
35	Test Alarm time set by command "25"
36	Test Alarm time set by command "26"
37	Test Alarm time set by command "27"
39	Change Chime Bell activating time
41	Open door unconditionally
42	Close door unconditionally
43	Enable QUICK ACCESS MODE
44	Disable QUICK ACCESS MODE
51	Disable Melody sound (turning off both the melody & keypress audio feedback)
52	Enable Melody sound
60	Change keypad lock-out time when Try-Out error detected
61	Set Aux Input #1 Detection from ‘L’ to ‘H’
62	Set Aux Input #1 Detection from ‘H’ to ‘L’
63	Set Aux Input #2 Detection from ‘L’ to ‘H’
64	Set Aux Input #2 Detection from ‘H’ to ‘L’
65	Set Aux Input #3 Detection from ‘L’ to ‘H’
66	Set Aux Input #3 Detection from ‘H’ to ‘L’
67	Set Exit Button Input Detection from ‘L’ to ‘H’
68	Set Exit Button Input Detection from ‘H’ to ‘L’
69	Set Door-Contact sensor Input Detection from ‘L’ to ‘H’
70	Set Door-Contact sensor Input Detection from ‘H’ to ‘L’
71	Activate TTL output to ‘H’
72	Activate TTL output to ‘L’
77	Enable Chime Bell Output
78	Disable Chime Bell Output
80	Set delay time to activate SECURE MODE
81	Set Door Open time-out for Door-Contact sensor
82	Set number of times of Try-Out
83	Set input keypress time-out time

84	Set Tamper Alarm output port
88	Enable Tamper Alarm
89	Disable Tamper Alarm
99	Re-Initialize and erase all setup data

12-11. Add User Access Cards (RF CARD ONLY MODE)

Configuration Card

1 1 ENT

Command

Cards to be registered ....

.....

Configuration Card

12-12. Add User Access Cards (RF CARD + PIN MODE)

Configuration Card

1 2 ENT

Command

4~6 digit PIN ENT

Cards to be registered ....

.....

Configuration Card

12-13. Add User Access PIN (PIN ONLY MODE)

4~6 digit PIN ENT

Configuration PIN

1 3 ENT

Command

4~6 digit PIN ENT

PINs to be registered ....

4~6 digit PIN ENT

Configuration PIN

12-14.1. Delete User Access Cards (RF CARD ONLY MODE & RF CARD + PIN MODE)

Configuration Card

1 4 ENT

Command

Cards to be deleted ....

.....

Configuration Card

12-14.2. Delete User Access PIN (PIN ONLY MODE)

4~6 digit PIN ENT

Configuration PIN

1 4 ENT

Command

4~6 digit PIN ENT

PINs to be deleted ....

.....

4~6 digit PIN ENT

Configuration PIN

<TABLE 1> SETTINGS FOR COMMAND

Symbol	Setting Values	Examples/Remarks
Output Mode (OM)	(You must add value • and •) Setting value for activating time • Activate Mode — Value Activate only in Secure Mode : *00* Activate in Safe & Secure Mode : *50* Setting Value for activating Output Port • Activate Output Port — Value Activate only Door Relay : *01* Activate only Alarm Relay : *02* Activate only TTL Output : *04* Activate Door Relay & TTL : *05* Activate Alarm Relay & TTL : *06*	EX1)Activate Door Relay In Safe & Secure Mode • Safe & Secure Mode *50* • Door Relay *01* OM = *51* EX2)Activate Alarm Relay & TTL only in Secure mode • Secure Mode *00* • Alarm Relay & TTL *06* OM = *06*
tt	tt is the activating time value (seconds) from 01sec. to 99sec.	tt value 00sec. means no operation.
PW	PW is the 2 digits Password for Duress Alarm.	Do not use '77' for PW as it is used for Secure Mode
mm	mm is activating time value (minutes) from 01min. to 99min.	mm value 00min. means no operation.

12-21. Change Door Open Time When User Access Card (or PIN) Is Granted

(tt=00~99 sec., Defaulted Door Open time = 03 sec.)

Configuration Card /Configuration PIN	Command	Door open time	TTL time
	2 1 ENT	t t ENT	t t ENT

12-22. Change Alarm Time When User Access Card (or PIN) Is Denied

(Refer to Table 1 for OM, tt=00~99 sec., Defaulted Alarm time = 02 sec.)

Configuration Card /Configuration PIN	Command	Output Mode	Door time	Alarm Time	TTL time
	2 2 ENT	O M ENT	t t ENT	t t ENT	t t ENT

12-23. Change Alarm Time When Try-Out Error Detected

(Refer to Table 1 for OM, tt=00~99 sec., Defaulted Alarm time = 10 sec.)

Configuration Card /Configuration PIN	Command	Output Mode	Door time	Alarm Time	TTL time
	2 3 ENT	O M ENT	t t ENT	t t ENT	t t ENT

12-24. Change Alarm Time When Door Contact Error Detected

(Refer to Table 1 for OM, tt=00~99 sec.)

Door Open Time-out setting is required for activating, refer to 12.81.

Configuration Card /Configuration PIN	Command	Output Mode	Door time	Alarm Time	TTL time
	2 4 ENT	O M ENT	t t ENT	t t ENT	t t ENT

12-25. Change Alarm Time When AUX Input #1 Detected

12-26. Change Alarm Time When AUX Input #2 Detected

12-27. Change Alarm Time When AUX Input #3 Detected

(Refer to Table 1 for OM, tt=00~99 sec.)

Configuration Card /Configuration PIN	Command	Output Mode	Door time	Alarm Time	TTL time
	2 5 ENT 2 6 ENT 2 7 ENT	O M ENT	t t ENT	t t ENT	t t ENT

12-28. Change Alarm Time When Magnet Detected

(Refer to Table 1 for OM, tt=00~99 sec.)

2 8 ENT O M ENT t t ENT t t ENT t t ENT

Configuration Card /Configuration PIN | **Command** | **Output Mode** | **Door time** | **Alarm Time** | **TTL time**

12-29. Register 2 Digit Duress Alarm Password

(PW=00~99, Defaulted PW= 00, Do not use 7 7 ENT)

2 9 ENT P W ENT

Configuration Card /Configuration PIN | **Command** | **Password**

Note: '00' is registered as defaulted Password.

12-30. Change Alarm Time When Duress Alarm Detected

(tt=00~99 sec., Defaulted TTL time= 03 sec.)

3 0 ENT t t ENT

Configuration Card /Configuration PIN | **Command** | **TTL time**

12-31. Test Door Open Time Set By Command "21"
12-32. Test Alarm Time Set By Command "22"
12-33. Test Alarm Time Set By Command "23"
12-34. Test Alarm Time Set By Command "24"
12-35. Test Alarm Time Set By Command "25"
12-36. Test Alarm Time Set By Command "26"
12-37. Test Alarm Time Set By Command "27"

Outputs set by command will be tested.

3 1 ENT ~ 3 7 ENT

Configuration Card /Configuration PIN | **Command**

12-39. Change Chime Bell Activating Time

(tt=00~99 sec., Defaulted Chime Bell time= 05 sec.)

3 0 ENT t t ENT

Configuration Card /Configuration PIN | **Command** | **Chime Bell time**

12-41. Open Door Unconditional

Configuration Card /Configuration PIN 4 1 ENT

12-42. Close Door Unconditional

Configuration Card /Configuration PIN 4 2 ENT

12-43. Enable QUICK ACCESS MODE

When QUICK ACCESS MODE is enabled, Door will open simply by press ENT key.

Configuration Card /Configuration PIN 4 3 ENT

12-44. Disable QUICK ACCESS MODE

Configuration Card /Configuration PIN 4 4 ENT **(Defaulted setting=Disable)**

12-51. Disable Melody Sound

Configuration Card /Configuration PIN 5 1 ENT

12-52. Enable Melody Sound

Configuration Card /Configuration PIN 5 2 ENT **(Defaulted setting=Enable)**

12-60. Change Keypad Lock-out Time When Try-Out Error Detected

(mm=00~99 min., Defaulted Keypad Lock-out time= 01 min.)

6 0 ENT m m ENT

Configuration Card /Configuration PIN | **Command** | **Keypad Lock-out time**

12-61. Set AUX Input #1 Detection from 'L' to 'H'

AUX#1 input is detected on the raising edge of AUX#1 input

Configuration Card /Configuration PIN 6 1 ENT

12-62. Set AUX Input #1 Detection from 'H' to 'L'

AUX#1 input is detected on the falling edge of AUX#1 input (Defaulted setting)

Configuration Card /Configuration PIN 6 2 ENT

12-63. Set AUX#2 Input Detection from 'L' to 'H'

AUX#2 input is detected on the raising edge of AUX#2 input

Configuration Card /Configuration PIN 6 3 ENT

12-64. Set AUX#2 Input Detection from 'H' to 'L'

AUX#2 input is detected on the falling edge of AUX#2 input (Defaulted setting)

Configuration Card /Configuration PIN 6 4 ENT

12-65. Set AUX#3 Input Detection from 'L' to 'H'

AUX#3 input is detected on the raising edge of AUX#3 input

Configuration Card /Configuration PIN 6 5 ENT

12-66. Set AUX#3 Input Detection from 'H' to 'L'

AUX#3 input is detected on the falling edge of AUX#3 input (Defaulted setting)

Configuration Card /Configuration PIN 6 6 ENT

12-67. Set Exit Button Input Detection from 'L' to 'H'

Exit Button input is detected on the raising edge of Exit Button input

Configuration Card /Configuration PIN 6 7 ENT

12-68. Set Exit Button Input Detection from 'H' to 'L'

Exit Button input is detected on the falling edge of Exit Button input (Defaulted setting)

Configuration Card /Configuration PIN 6 8 ENT

12-69. Set Door Contact Sensor Input Detection from 'L' to 'H'

Door Contact input is detected on the raising edge of Door Contact input

Configuration Card /Configuration PIN 6 9 ENT

12-70. Set Door Contact Sensor Input Detection from 'H' to 'L'

Door Contact input is detected on the falling edge of Door Contact input (Defaulted setting)

Configuration Card /Configuration PIN 7 0 ENT

12-71. Activate TTL Output to 'H'

TTL output changes the state from logic '0' to logic '1' when it activates.

Configuration Card /Configuration PIN 7 1 ENT

12-72. Activate TTL Output to 'L'

TTL output changes the state from logic '1' to logic '0' when it activates. (Defaulted setting)

Configuration Card /Configuration PIN 7 2 ENT

12-77. Enable Chime Bell Output

Configuration Card /Configuration PIN 7 7 ENT **(Defaulted setting=Enable)**

12-78. Disable Chime Bell Output

Configuration Card /Configuration PIN 7 8 ENT

12-80. Set Delay Time to Activate SECURE MODE

(mm=00~99 min., Defaulted Delay time= 00 min.)

8 0 ENT m m ENT

Configuration Card /Configuration PIN] Command Delay time

12-81. Set Door Open Time-out for Door Contact Sensor

(tt=00~99 sec., Defaulted value = 00 sec. means no detect Door Contact Sensor, refer to 12.24 for Alarm time settings)

8 1 ENT t t ENT

Configuration Card /Configuration PIN Command Door Open time-out

12-82. Set Number of Times of Try-Out

(NN=00~99 times, Defaulted Try-out numbers= 05 times)

8 2 ENT N N ENT

Configuration Card /Configuration PIN | **Command** | **Try-out numbers**

12-83. Set Input Keypress Time-out Time

(tt=10~99 sec., Defaulted Keypress time-out= 20 sec.,

Minimum tt = 10 sec.)

8 3 ENT t t ENT

Configuration Card /Configuration PIN | **Command** | **Keypress time-out time**

12-84. Set Tamper Alarm Output Port

(Refer to Table 1 for OM, Defaulted Output port= 02 Alarm Relay)

8 4 ENT O M ENT

Configuration Card /Configuration PIN | **Command** | **Alarm Output Port**

12-88. Enable Tamper Alarm

To comply with UL 294, the Standard for Access Control System Units, the Tamper Alarm must be enabled.

Configuration Card /Configuration PIN 8 8 ENT

12-89. Disable Tamper Alarm

Configuration Card /Configuration PIN 8 9 ENT **(Defaulted setting)**

12-99. Re-Initialize and Erase All Setup Data

Please use this command when you really want to erase all data and start the unit from the beginning.

Configuration Card /Configuration PIN 9 9 ENT

- **Additional Function**

12-73. Enable Keypad Input To Enter ID Number

Keypad input is enabled to enter the ID numbers through keypads.

Configuration Card /Configuration PIN 7 3 ENT

12-74. Disable Keypad Input To Enter ID Number

Keypad input is disabled to enter the ID numbers through keypads.

(Defaulted setting)

Configuration Card /Configuration PIN 7 4 ENT

13. FCC REGISTRATION INFORMATION

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with **Part 15 of the FCC Rules**.

Operation is subject to the following two conditions;
1. This device may not cause harmful interface, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a **Class A Digital Device**, pursuant to **Part 15 of the FCC Rules**. These limits are designed to this equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.

15. TEMPLATE